SOCIETY FOR RISK ANALYSIS - 1990 ANNUAL MEETING

NEW ORLEANS, LOUISIANA
PROGRAM

SUNDAY, 7 OCTOBER 1990

Poydras Room, Third Floor
8:30 am - Noon COUNCIL MEETING

Lobby, Third Floor
4:00 - 7:00 pm REGISTRATION

La Salle Ballroom A
5:00 - 7:00 pm WELCOME RECEPTION

MONDAY, 8 OCTOBER 1990

La Salle Ballroom A
8:30 - 10:00 am (MAM-A) PLENARY SESSION
Chair: Curtis Travis, Oak Ridge National Laboratory
1990 Distinguished Contribution Award - Presented to:
Norman C. Rasmussen, Massachusetts Institute of Technology
Remarks: "Risk Analysis: What Challenges Remain?"

10:00 - 10:30 am COFFEE BREAK, Lobby

CONCURRENT MORNING SESSIONS - 10:30 am - Noon

La Salle Ballroom A (MAM-B) RISK COMMUNICATION ROUNDTABLE (PART I)
Chair: Ann Fisher, US Environmental Protection Agency and Pennsylvania State University

(MAM-B1) NATIONAL RESEARCH COUNCIL STUDY ON RISK PERCEPTION AND COMMUNICATION
R. Coppock and L. McCray, National Academy of Sciences

(MAM-B2) RISK COMMUNICATION, RECYCLING AND YOUNG PEOPLE
D. Holtgrave and B. Tinsley; University of Oklahoma and University of California, Riverside

(MAM-B3) COMMUNICATING EFFECTIVELY ABOUT RISK MAGNITUDES
P. Sandman and N. Weinstein; Rutgers University

(MAM-B4) COMMUNICATING ABOUT RADON RISK IN THREE COMMUNITIES
C. Chess and B. J. Hance; Rutgers University

(MAM-B5) RADON RISK COMMUNICATION: NYS STUDY AND REGION III/MD STUDY
W. Desvousges and V. K. Smith; Research Triangle Institute and North Carolina State University

(MAM-B6) MOTIVATING PEOPLE TO TEST FOR RADON AND MEASURING CHANGES IN RISK BELIEFS
W. Schulze and G. McClelland; University of Colorado

(MAM-B7) CANCELLED

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CONCURRENT MORNING SESSIONS - 10:30 am - Noon

La Salle Ballroom B (MAM-C) NEW DIRECTIONS IN RISK PERCEPTION

Chair: William Freudenburg, University of Wisconsin, Madison

(MAM-C1) SITUATING RISK PERCEPTIONS IN THEIR SOCIAL CONTEXT: A FRAMEWORK FOR FUTURE INQUIRY
E. Rosa and T. Dietz; Washington State University and George Mason University

(MAM-C2) RISK PERCEPTIONS AND OPPORTUNITY-THREAT IMPACTS
R. Gramling and W. R. Freudenburg; University of Southwestern Louisiana and University of Wisconsin, Madison

(MAM-C3) THE CULTURE OF SAFETY AND RISK ASSESSMENT: UNDERSTANDING PUBLIC AND EXPERT PERCEPTIONS OF RISK
J. S. Picou and D. A. Gill; University of South Alabama and Mississippi State University

(MAM-C4) RISK EVALUATION AND EXPERT PERCEPTIONS: STRATEGIES FOR REFORM
K. S. Shrader-Frechette; University of South Florida

La Salle Ballroom C (MAM-D) CLEAN AIR ACT

Chair: Wilbur A. Steger, CONSAD Research Corporation

(MAM-D1) CROSS-CUTTING FEDERAL, STATE AND LOCAL ENVIRONMENTAL AND ECONOMIC CLEAN AIR ACT (CAA) ISSUES
W. A. Steger; CONSAD Research Corporation

(MAM-D2) USE OF RISK ASSESSMENT UNDER TITLE III OF THE CLEAN AIR ACT AMENDMENTS OF 1990
A. Cristofaro; US Environmental Protection Agency

(MAM-D3) RISK ASSESSMENT ELEMENTS OF LOUISIANA'S NEW COMPREHENSIVE AIR TOXICS CONTROL PROGRAM
M. D. McDaniel; Louisiana Department of Environmental Quality

Pelican Room 1 (MAM-E) BIOMARKERS OF EXPOSURE

Chair: Robert Orth, Monsanto Company

(MAM-E1) BIOMARKERS OF EXPOSURE: ROLE OF IMPROVING EXPOSURE ASSESSMENT
B. D. Goldstein; University of Medicine and Dentistry of New Jersey

(MAM-E2) HUMAN EXPOSURE ASSESSMENT: THE ROLE OF BOLOGICAL MONITORING IN ASSESSING CHEMICAL UPTAKE
L. K. Lowry; Biological Monitoring Resources

(MAM-E3) BREATH MEASUREMENTS AS AN INDICATOR OF EXPOSURE TO VOLATILE ORGANIC COMPOUNDS
L. A. Wallace; US EPA

Pelican Room 2 (MAM-F) HEALTH EFFECTS OF GLOBAL WARMING

Chair: Clay Easterly, Oak Ridge National Laboratory

(MAM-F1) GLOBAL CLIMATE CHANGE: WHAT ARE THE LIKELY HEALTH RISKS?
J. Longstreth; Battelle Northwest Laboratories, Washington, DC

(MAM-F2) ULTRAVIOLET RADIATION AND MELANOMA MORTALITY
H. Pitcher and J. Longstreth; US EPA and Battelle Pacific Northwest Laboratories, Washington, DC

(MAM-F3) RATIONAL DECISION MAKING WITH UNCERTAINTY
A. D. Long; Agency for International Development

(MAM-F4) GLOBAL RISK ANALYSIS: DATA AND INFORMATION ANALYSIS CENTERS
M. P. Farrell; Oak Ridge National Laboratory

CANCELLED (MAM-G) SENSITIVE SUBPOPULATIONS

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CONCURRENT MORNING SESSIONS - 10:30 am - Noon

Poydras Room — (MAM-H) EXPERT SYSTEMS
Chair: Lee R. Abramson, US Nuclear Regulatory Commission

(MAM-H1) THE BOUNDING APPROACH
L. R. Abramson; US Nuclear Regulatory Commission

(MAM-H2) COMBINING THE CAUSAL KNOWLEDGE OF EXPERTS
L. A. Cox, Jr.; US WEST Advanced Technologies

(MAM-H3) THE USE OF PROBABILISTIC AND NON-PROBABILISTIC MODELS FOR THE COMBINATION OF EXPERT OPINIONS
J. S. Wu and G. Apostolakis; University of California, Los Angeles

Fulton Room — (MAM-I) ETHICS
Chair: Mary English, University of Tennessee

(MAM-I1) SOME CENTRAL ETHICAL ISSUES FOR RISK MANAGEMENT
D. MacLean; University of Maryland, Baltimore

(MAM-I2) VALUES IN RISK DECISIONS: REGIMENTATION OR DELIBERATION?
S. J. Reaven; State University of New York

(MAM-I3) CORPORATE CULTURE AND VALUE ISSUES IN DECISIONS TO LOCATE HAZARDOUS INDUSTRIAL FACILITIES IN DEVELOPING COUNTRIES
J. X. Kasperson and R. E. Kasperson; Clark University

Jackson Room — (MAM-J) PUBLIC HEALTH RISK ASSESSMENT
Chair: Sheri Tickle Hester, Oak Ridge National Laboratory

(MAM-J1) CALIBRATION OF PROCEDURES FOR SUPERFUND RISK ASSESSMENT
G. Goodman and R. Wilson, Harvard University

(MAM-J2) MEASURING AND VALUING HEALTH, SAFETY AND ENVIRONMENTAL RISK REDUCTIONS
C. Ulibarri, F. Roach and L. Trocki; Los Alamos National Laboratory

(MAM-J3) GLOBAL CHEMICAL POLLUTION: WHAT IS THE RISK?
S. T. Hester and C. C. Travis; Oak Ridge National Laboratory

(MAM-J4) MANAGING THE RISKS OF INFECTIOUS MEDICAL WASTE
W. Wagner; Medical Waste Management, Inc.

Noon - 1:30 pm — LUNCH BREAK

CONCURRENT AFTERNOON SESSIONS - 1:30 - 3:00 pm

La Salle Ballroom A — (MPM-A) RISK COMMUNICATION ROUNDTABLE (PART II)
Chair: Ann Fisher, US Environmental Protection Agency and Pennsylvania State University

(MPM-A1) DEVELOPING A FRAMEWORK FOR EVALUATING THE EFFECTIVENESS OF RISK COMMUNICATION PROGRAMS
W. Desvousges; Research Triangle Institute

(MPM-A2) COMMUNICATING ABOUT THE RISK FROM SUPERFUND SITES
G. McClelland and W. Schulze; University of Colorado

(MPM-A3) ACHIEVING GREATER CONSISTENCY BETWEEN SUBJECTIVE AND OBJECTIVE RISKS
R. O'Connor, R. J. Bord and D. J. Epp; Pennsylvania State University

(MPM-A4) COMMUNICATING CUMULATIVE, LONG TERM RISKS
R. O'Connor, R. J. Bord and D. J. Epp; Pennsylvania State University

(MPM-A5) SUPERFUND COMMUNITY PREFERENCE STUDY
R. Cantor and M. Schoepfle; Oak Ridge National Laboratory

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CONCURRENT AFTERNOON SESSIONS - 1:30 - 3:00 pm

La Salle Ballroom B (MPM-B) ORGANIZATIONAL FACTORS IN RISK
Chair: Lee Clarke, Rutgers University

(MPM-B1) CONTINGENCY PLANNING FOR MAJOR OIL SPILLS: A DISJUNCTURE BETWEEN ORGANIZATIONAL COMPETENCE AND TECHNOLOGICAL PROBLEMS
L. Clarke; Rutgers University

(MPM-B2) WHEN CLOSE CALLS COUNT: ENHANCING ORGANIZATIONAL LEARNING ABOUT RISKS
M. Tamuz; Rutgers University

(MPM-B3) TECHNOLOGICAL CHOICE IN ORGANIZATIONS: A GRAMMAR OF MOTIVES
J. M. Jasper; New York University

La Salle Ballroom C (MPM-C) DECISION MAKING IN RISK ASSESSMENT
Chair: Jacqueline Patterson, US Environmental Protection Agency

(MPM-C1) THE FALLACY OF RANKING POSSIBLE CARCINOGEN HAZARDS USING THE TD_{50}
D. Wartenberg and M. A. Gallo; University of Medicine and Dentistry of New Jersey

(MPM-C2) APPLYING MULTIOBJECTIVE DECISION-MAKING TECHNIQUES TO THE ANALYSIS OF FAULT-TOLERANT SYSTEMS
J. Pet-Edwards, B. W. Johnson, J. H. Goodfriend, S. A. Woodham and P. W. Huggler; University of Virginia

(MPM-C3) RISK-BASED DECISION THEORETIC MODELS FOR EVALUATING TURBINE ROTOR RUN/REPAIR/REPLACE DECISIONS
L. J. Valverde A., Jr., S. J. Jabbour and R. Nease; Electric Power Research Institute and Decision Focus Incorporated

(MPM-C4) NEW DEVELOPMENTS WITH THE US EPA'S INTEGRATED RISK INFORMATION SYSTEM (IRIS)
J. Patterson, L. Tuxen, P. Daunt, J. Swartout; US Environmental Protection Agency, Cincinnati and Washington, DC

Pelican Room 1 (MPM-D) HEALTH EFFECTS OF DIOXIN
Chair: William F. Greenlee, Chemical Industry Institute of Toxicology

(MPM-D1) BIOLOGICAL MECHANISMS OF ACTION OF 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (TCDD) AND RELATED COMPOUNDS
W. F. Greenlee; Chemical Industry Institute of Toxicology

(MPM-D2) BIOLOGICAL DETERMINANTS OF THE DISPOSITION OF 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (TCDD) AND RELATED COMPOUNDS
M. E. Andersen; Chemical Industry Institute of Toxicology

(MPM-D3) ANIMAL STUDIES ON TCDD AND RELATED COMPOUNDS: TOXIC AND BIOCHEMICAL EFFECTS
G. W. Lucier; NIEHS

(MPM-D4) HEALTH EFFECTS IN HUMAN POPULATIONS EXPOSED TO DIOXINS
M. A. Fingerhut, M. Haring-Sweeney, D. A. Marlow, L. A. Piacitelli, G. M. Calvert, A. L. Greife, L. B. Connally and W. E. Halperin; NIOSH

Pelican Room 2 (MPM-E) EFFLUENT FEES TO REDUCE WASTE
Chair: Allan G. Pulsipher, Louisiana State University

(MPM-E1) EXPERIENCE IN THE US USING MARKETABLE PERMITS TO CONTROL POLLUTION
G. Hester; Electric Power Research Institute

(MPM-E2) THE DETERMINANTS OF INTERSTATE FLOWS OF HAZARDOUS WASTE
S. Farber; Louisiana State University

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CONCURRENT AFTERNOON SESSIONS – 1:30 – 3:00 pm

(MPM-E3) INCENTIVES FOR SAFE DISPOSAL OF HAZARDOUS WASTE: REGULATION, TAXES, OR SUBSIDIES?
D. W. McNiel and A. W. Foshee; McNeese State University

(MPM-E4) A COMPARATIVE ANALYSIS OF LOUISIANA'S HAZARDOUS WASTE TAX PROGRAM
M. A. Reams; Louisiana State University

Poydras Room — (MPM-F) CHEMICAL MIXTURES
Chair: Richard C. Hertzberg, US Environmental Protection Agency

(MPM-F1) PHARMACOKINETIC INTERACTIONS OF MIXTURES: IMPLICATIONS FOR RISK ASSESSMENT
H. J. Clewell, III, M. L. Gargas, and M. E. Anderson; Wright-Patterson AFB and Chemical Industry Institute of Toxicology

(MPM-F2) MIXTOX - A DATA BASE ON TOXICOLOGIC INTERACTIONS
R. C. Hertzberg and L. Rubin; US Environmental Protection Agency and Syracuse Research Corporation

(MPM-F3) PREDICTING CARCINOGENICITY OF PETROLEUM REFINERY STREAMS
C. R. Mackerer, T. A. Roy and G. R. Blackburn; Mobil Oil Corporation

Fulton Room — (MPM-G) MAXIMUM EXPOSED INDIVIDUAL
Chair: Paul S. Price, American Petroleum Institute

(MPM-G1) REDEFINING THE MAXIMALLY EXPOSED INDIVIDUAL
R. P. Strieter and C. J. Sample; The American Petroleum Institute and C. J. Sample Consulting

(MPM-G2) CANCELLED

(MPM-G3) USE OF THE MEI IN DIETARY REGULATIONS: PITFALLS AND ALTERNATIVES
B. J. Petersen; Technical Assessment Systems, Inc.

(MPM-G4) A STOCHASTIC MODEL OF LIFETIME EXPOSURES TO POINT SOURCES, A BASIS FOR DETERMINING THE MEI
P. S. Price, J. Sample and R. Strieter; American Petroleum Institute and Independent Consultant

Jackson Room — (MPM-H) NUCLEAR EMERGENCY (PART I)
Co-Chairs: Roger Kasperson and Robert Goble, Clark University

(MPM-H1) REAL-TIME TECHNIQUES FOR ANTICIPATING EMERGENCIES
G. Thompson; Institute for Resource and Security Studies

(MPM-H2) WHAT EMERGENCY PLANNING FOR NUCLEAR ACCIDENTS CAN AND CAN NOT ACHIEVE
R. L. Goble; Clark University

(MPM-H3) ELECTRONIC MANAGEMENT OF RISK INFORMATION IN EMERGENCIES
J. H. Sorenson; Oak Ridge National Laboratory

(MPM-H4) BREATHING LIFE INTO EMERGENCY PLANNING
D. Golding and R. E. Kasperson; Clark University

Acadian Room — (MPM-I) INTERNATIONAL ROLE OF RISK ANALYSIS (PANEL SESSION)
Chair: Vlasta Molak, Biotechnology Forum
Panelists: R. Keller, National Science Foundation; H. Kunreuther, Wharton Risk and Decision Processes Center; V. Molak, Biotechnology Forum; A. Vari, SUNY at Albany; Members of the SRA International Network

3:00 – 3:30 pm — COFFEE BREAK, Lobby

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CONCURRENT AFTERNOON SESSIONS - 3:30 - 5:00 pm

La Salle Ballroom A (MPM-J) RISK COMMUNICATION ROUNDTABLE (PART III)
Chair: Ann Fisher, US Environmental Protection Agency and Pennsylvania State University

(MPM-J1) A. BASELINE STUDY AND ANALYSIS OF PUBLIC KNOWLEDGE AND PERCEPTIONS OF CHEMICAL RISKS: LESSONS FROM NATURAL HAZARDS FOR CHEMICAL RISK COMMUNICATIONS
V. Covello and D. McCallum; Columbia University and Georgetown University

B. COMMUNICATING ABOUT PESTICIDES IN DRINKING WATER WELLS
D. McCallum; Georgetown University

C. SEMINARS FOR THE PRESS
D. McCallum, Georgetown University

(MPM-J2) A. DEVELOPING TRAINING FOR RISK COMMUNICATION AT THE COMMUNITY LEVEL
S. Hadden and B. Bales; University of Texas

B. A RISK COMMUNICATION MANUAL IMPLEMENTED IN HYPERCARD
S. Hadden and J. Hadden; University of Texas

(MPM-J3) KANAWHA VALLEY RISK COMMUNICATION PROJECT
P. Hill; National Institute for Chemical Studies

(MPM-J4) COMMUNITY INTERPRETATION OF HAZARDOUS MATERIALS RISK INFORMATION
D. Conn, W. Owens and R. Rich; Virginia Polytechnic Institute and SU

(MPM-J5) TEXAS RISK COMMUNICATION PROCESS
S. Peterson, P. Bowman, R. Allison and R. Durand; University of Houston, Clear Lake

(MPM-J6) TBA
D. McManus; US Environmental Protection Agency

La Salle Ballroom B (MPM-K) RISK MANAGEMENT
Chair: Peter K. LaGoy, OHM Corporation

(MPM-K1) DEVELOPING ACCEPTABLE SITE-SPECIFIC CLEANUP LEVELS - THE INTERACTION OF RISK ASSESSMENT AND RISK PERCEPTION
P. K. LaGoy; OHM Corporation

(MPM-K2) RISK MANAGEMENT INFLUENCE OVER RISK ASSESSMENT IN THE FLUORIDE IN DRINKING WATER REGULATION
R. J. Carton and R. Morison; National Federation of Federal Employees

(MPM-K3) RISK CONSERVATISM IS THE PREROGATIVE OF MANAGEMENT
R. F. Miles, Jr.; California Institute of Technology

(MPM-K4) STANDARDIZING THE RISK ASSESSMENT PROCESS: THE ROLE OF JUDGMENT IN SCIENTIFIC ANALYSIS
D. G. Holdsworth, York University, Canada

La Salle Ballroom C (MPM-L) PROBABILISTIC RISK ANALYSIS
Chair: Jonathan Young, SAIC

(MPM-L1) THE IDENTIFICATION OF INITIATING EVENT CATEGORIES FOR THE HIGH FLUX ISOTOPE REACTOR PROBABILISTIC RISK ASSESSMENT
D. H. Johnson, D. R. Buttemer, G. F. Flanagan, L. D. Proctor and M. A. Linn; PLG, Inc. and Oak Ridge National Laboratory

(MPM-L2) RISK ANALYSIS OF NASA RESEARCH FACILITIES
M. V. Frank and D. C. Bley; Safety Factor Associates and PLG

(MPM-L3) DECIDING AMONG CANDIDATE RISK REDUCTION STRATEGIES: A SPACE FLIGHT EXAMPLE
M. V. Frank; Safety Factor Associates

(MPM-L4) PROBABILISTIC RISK ASSESSMENT: KNOW WHEN TO SAY WHEN
J. Young and K. N. Fleming; SAIC and PLG

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